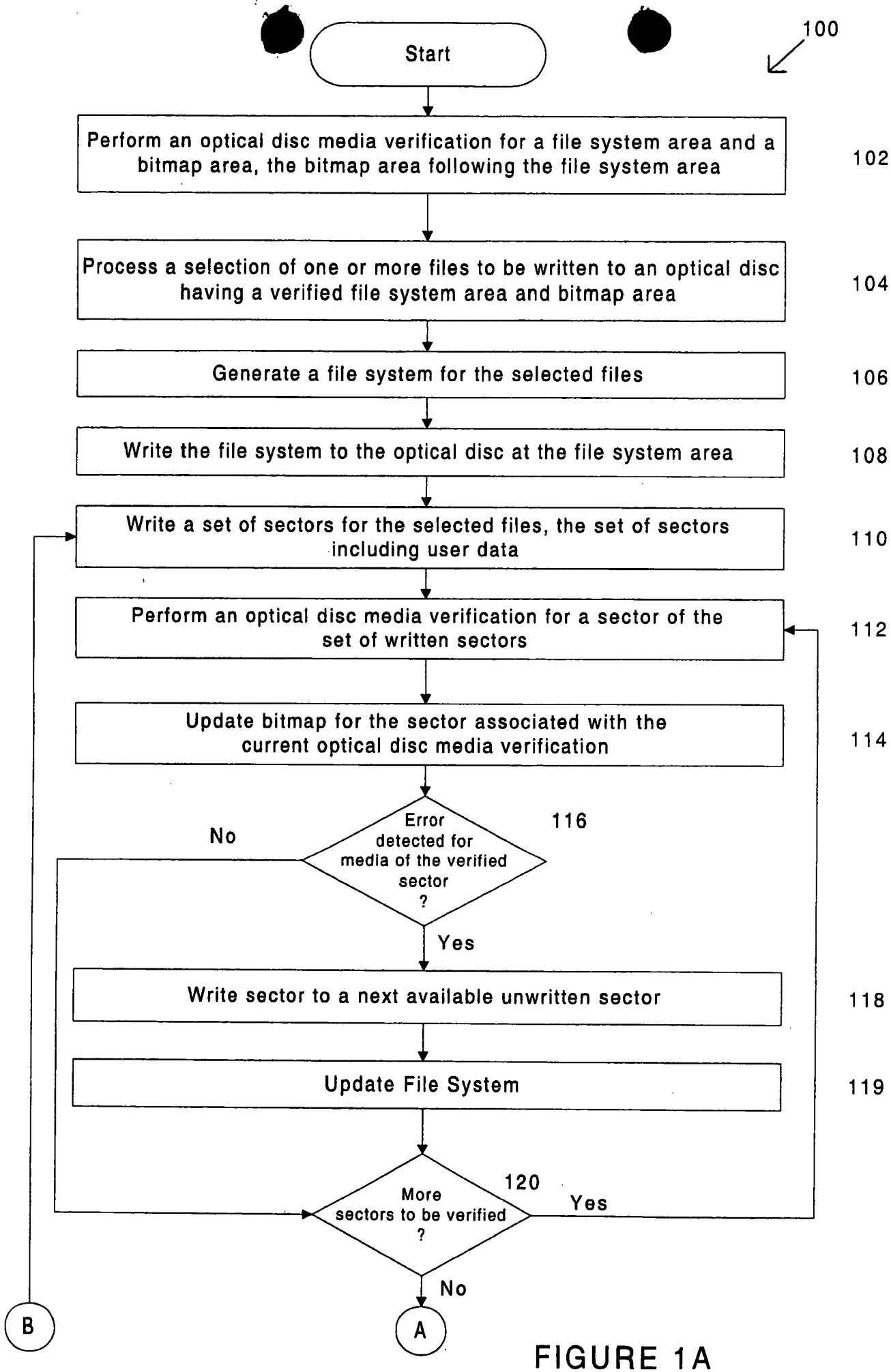
100
Start
Perform an optical disc media verification for a file system area and a bitmap area, the bitmap area following the file system area
102
Process a selection of one or more files to be written to an optical disc having a verified file system area and bitmap area
104
Generate a file system for the selected files
106
Write the file system to the optical disc at the file system area
108
Write a set of sectors for the selected files, the set of sectors including user data
110
Perform an optical disc media verification for a sector of the set of written sectors
112
Update bitmap for the sector associated with the current optical disc media verification
114
Error detected for media of the verified sector ?
116
No
Yes
Write sector to a next available unwritten sector
118
Update File System
119
More sectors to be verified ?
120
Yes
No
B
A

FIGURE 1A

0054705 "5604T960

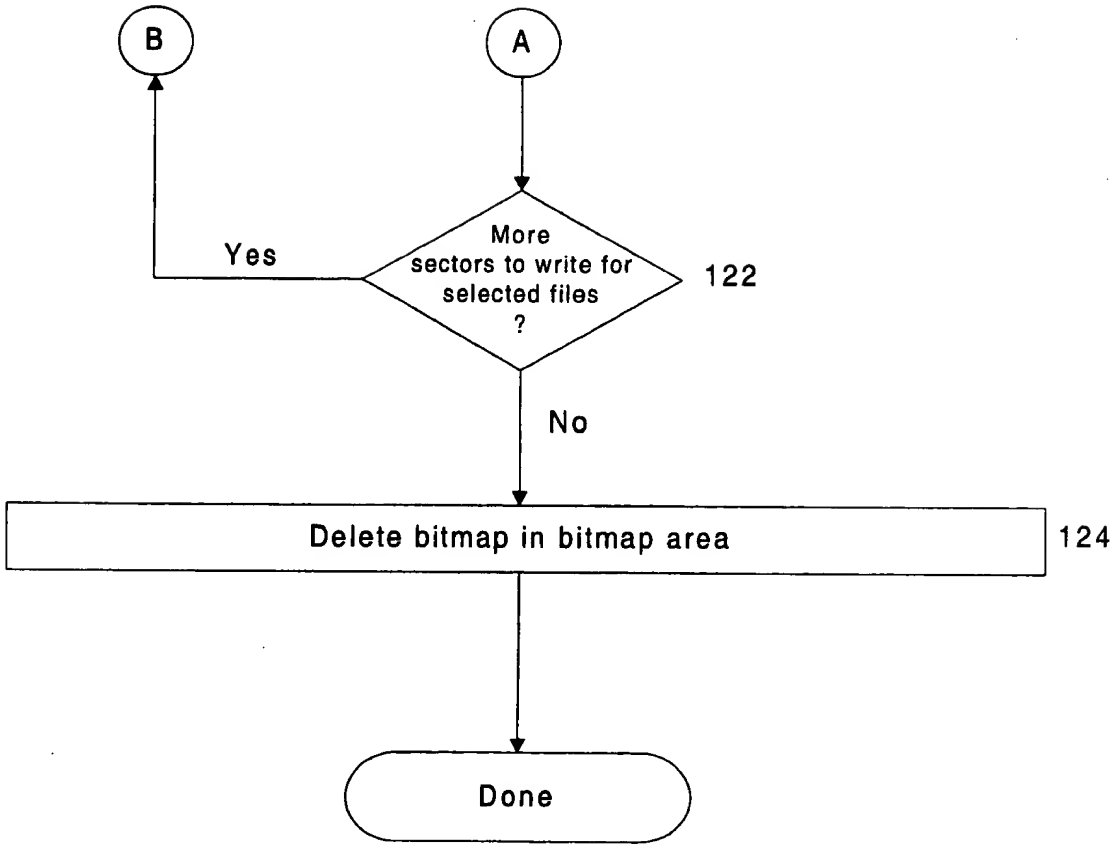

Figure 1B

0054.0705.4.0

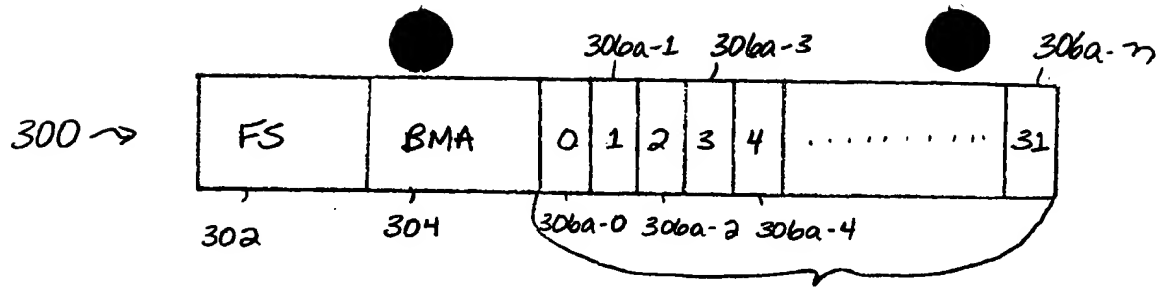

Fig. 2A

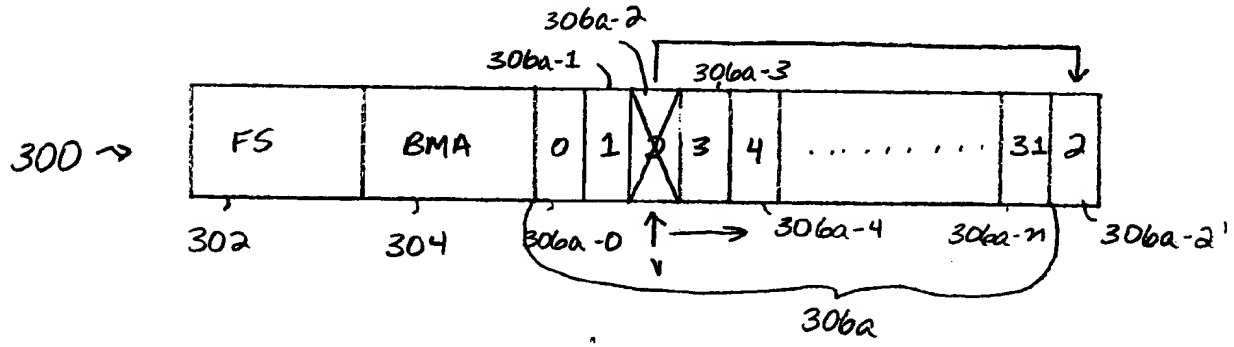

Fig. 2B

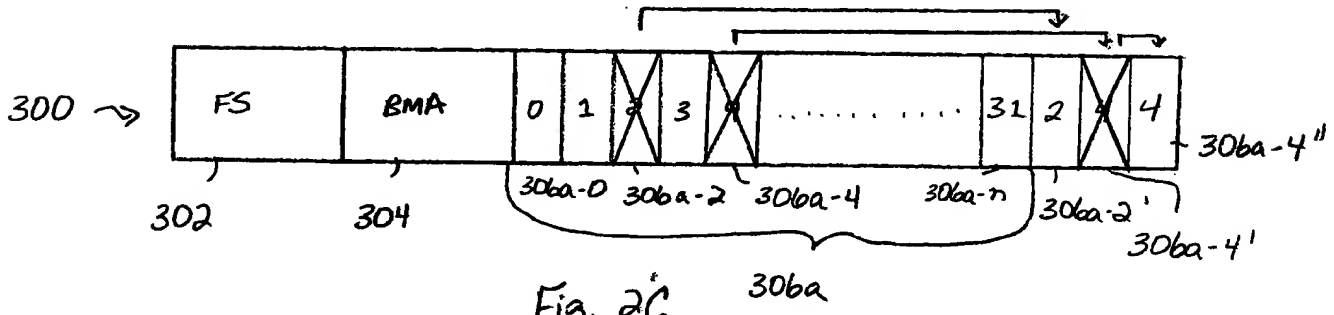

Fig. 2C

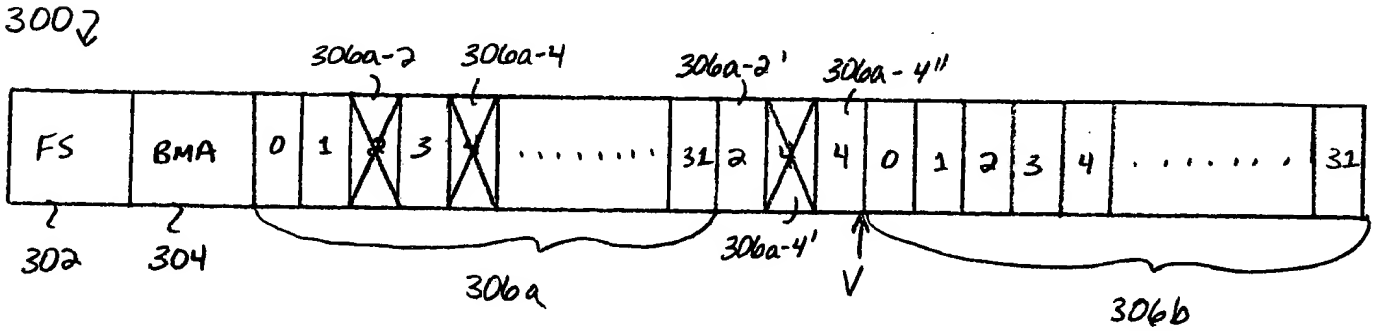

Fig. 2D

0054055.0714.00

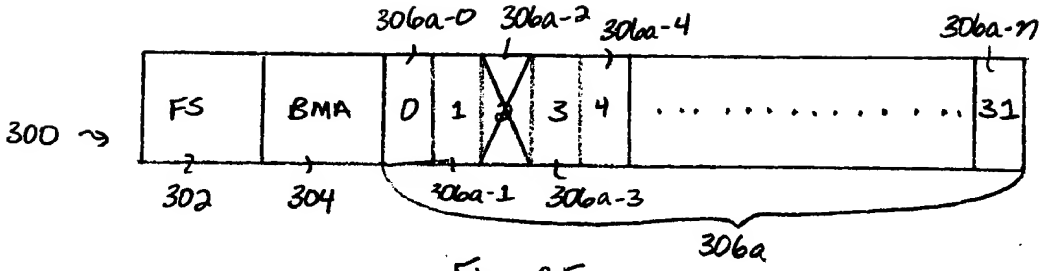

Fig. 2E

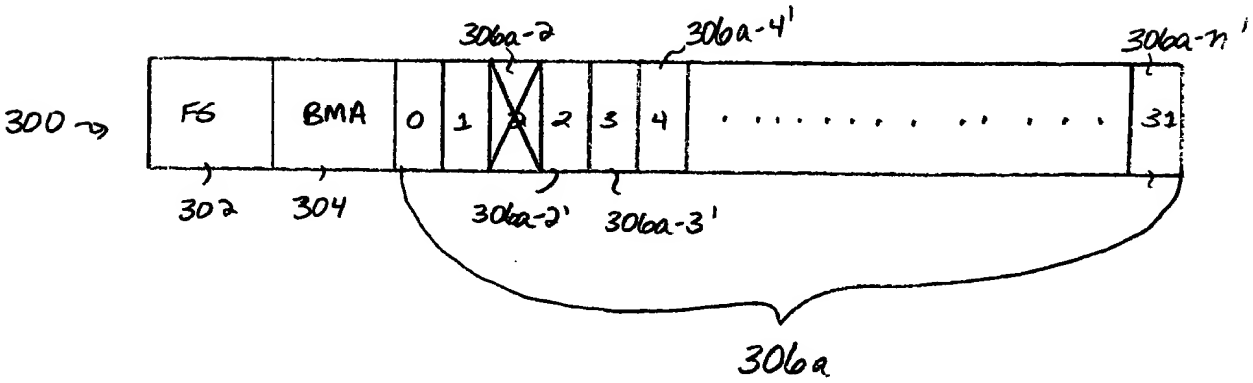

Fig. 2F

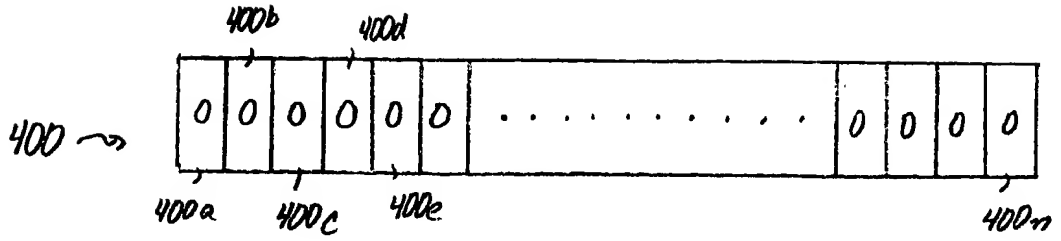

Fig. 3A

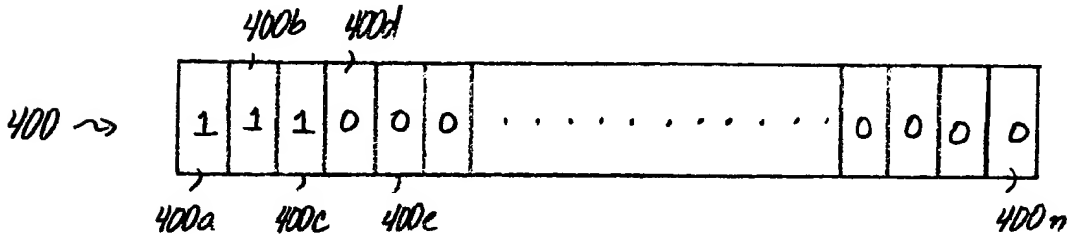

Fig. 3B

DOCKET: 5904-7500

0074095-071100

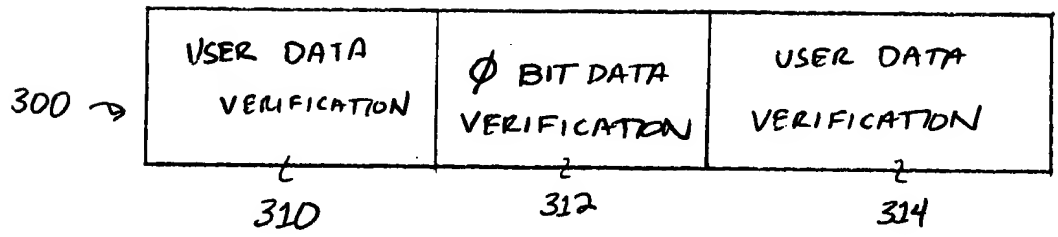

Fig. 4A

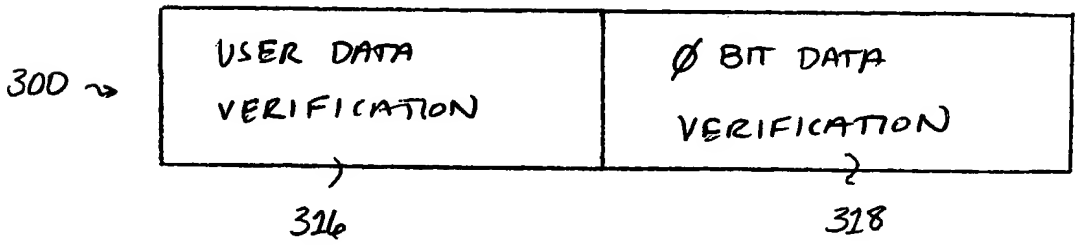

Fig. 4B

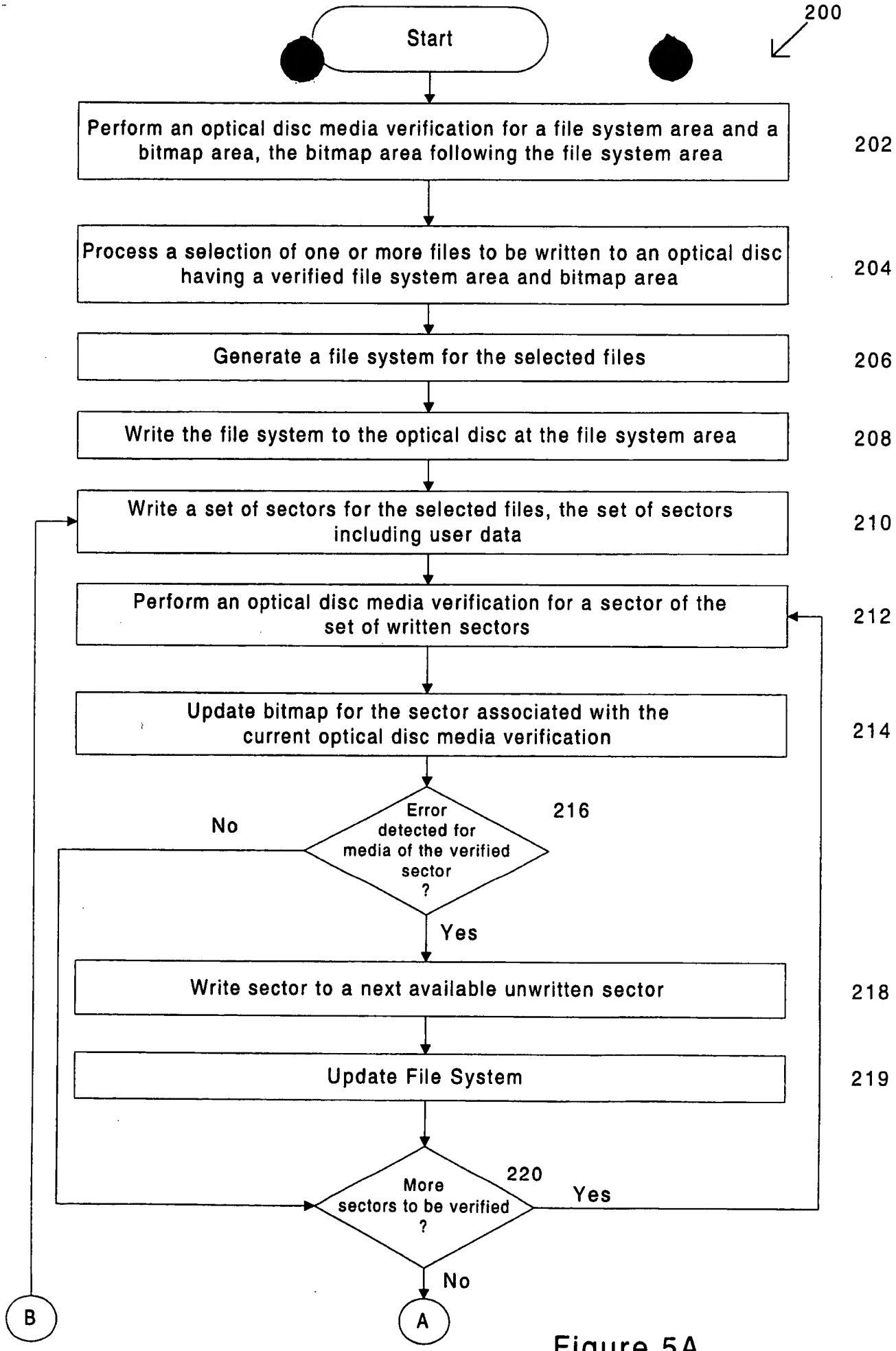
200
Start
Perform an optical disc media verification for a file system area and a bitmap area, the bitmap area following the file system area
202
Process a selection of one or more files to be written to an optical disc having a verified file system area and bitmap area
204
Generate a file system for the selected files
206
Write the file system to the optical disc at the file system area
208
Write a set of sectors for the selected files, the set of sectors including user data
210
Perform an optical disc media verification for a sector of the set of written sectors
212
Update bitmap for the sector associated with the current optical disc media verification
214
Error detected for media of the verified sector ?
216
No
Yes
Write sector to a next available unwritten sector
218
Update File System
219
More sectors to be verified ?
220
Yes
No
B
A

Figure 5A

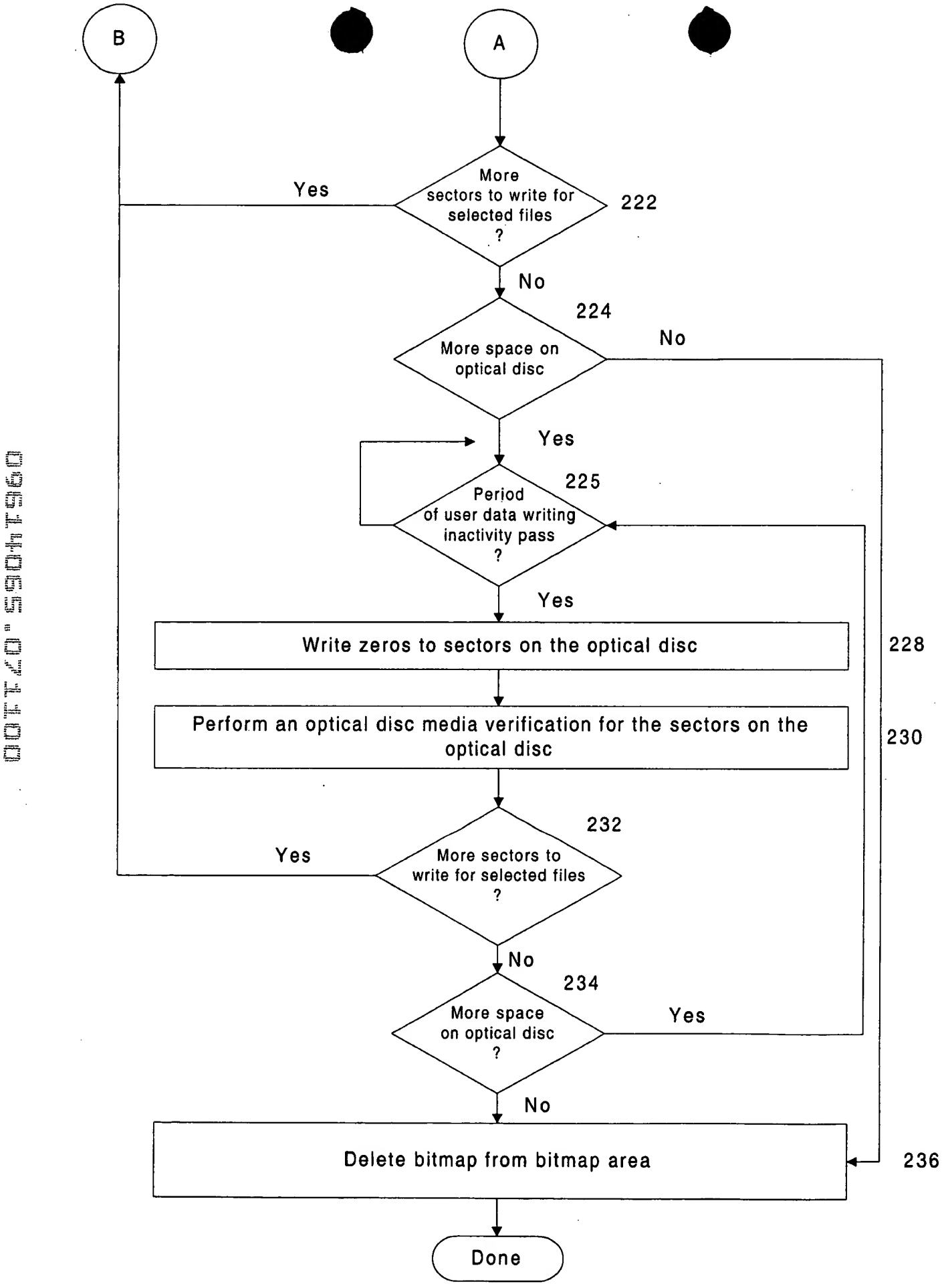
B
A
More sectors to write for selected files ?
222
Yes
No
224
More space on optical disc
No
Yes
225
Period of user data writing inactivity pass ?
Yes
Write zeros to sectors on the optical disc
228
Perform an optical disc media verification for the sectors on the optical disc
230
232
More sectors to write for selected files ?
Yes
No
234
More space on optical disc ?
Yes
No
Delete bitmap from bitmap area
236
Done

Figure 5B